PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12643PC2-MAH/JMR	FOR FURTHER A	CTION	See Form PCT/IPEA/416
International application No. PCT/AU2004/001622	International filing day 22 November 2004		Priority date (day/month/year) 21 November 2003
International Patent Classification (IPC) or	national classification	and IPC	
Int. Cl. <i>C09K 3/18</i> (2006.01 <i>C03C 17/30</i> (2006.0) <i>C09D 5/33</i> (200	06.01)	
Applicant			
THE UNIVERSITY OF QUEEN	ISLAND et al.		
1. This report is the international preliminal Authority under Article 35 and transmit			ernational Preliminary Examining
2. This REPORT consists of a total of 3	sheets, including this	cover sheet.	
3. This report is also accompanied by ANI	NEXES, comprising:		
a. X (sent to the applicant and to the	e International Bureau,	a total of 4 sheets, a	s follows:
	tions authorized by thi		ded and are the basis for this report and/or 0.16 and Section 607 of the
			s contain an amendment that goes beyond m 4 of Box No. I and the Supplemental
b. (sent to the International Burea a sequence listing and/or table a Sequence Listing (see Section 8	related thereto, in elect	ronic form only, as indi	Telectronic carrier(s)), containing cated in the Supplemental Box Relating to
4. This report contains indications relating	g to the following item	s:	
Box No. I Basis of the repo	rt .	· ·	
Box No. II Priority		:	
Box No. III Non-establishme	nt of opinion with rega	rd to novelty, inventive	step and industrial applicability
Box No. IV Lack of unity of	invention		
	ent under Article 35(2) lanations supporting su		inventive step or industrial applicability;
Box No. VI Certain documen	ts cited		
Box No. VII Certain defects in	the international appl	ication	
Box No. VIII Certain observati	ons on the internationa	l application	
Date of submission of the demand		Date of completion of	this report
9 June 2005	•	8 December 2005	
Name and mailing address of the IPEA/AU		Authorized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRA	ΓΙΔ		May .
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001622

Box	No. I	I Basis of the report	
1.	With	h regard to the language, this report is based on:	
	X	The international application in the language in which it was filed	
		A translation of the international application into , which is the translation furnished for the purposes of:	anguage of a
		international search (under Rules 12.3(a) and 23.1 (b))	
		publication of the international application (under Rule 12.4(a))	
	-	international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
2.	furni	th regard to the elements of the international application, this report is based on (replacement sheets which is shed to the receiving Office in response to an invitation under Article 14 are referred to in this report as I' and are not annexed to this report):	
		the international application as originally filed/furnished	
	X	the description:	
		pages 1-19, 24(abstract) as originally filed/furnished	
١.		pages* received by this Authority on with the letter of	
-	[1]	pages* received by this Authority on with the letter of the claims:	
	X		
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19	. •
		pages* 20-23 received by this Authority on 6 December 2005 with the letter of 6	December 2005
		pages* received by this Authority on with the letter of	
	X.	the drawings:	İ
		pages 1/7-7/7 as originally filed/furnished pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:	
			-
		the description, pages	
1	٠.	the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	·
٠		any table(s) related to the sequence listing (specify):	•
4.		This report has been established as if (some of) the amendments annexed to this report and listed below I made, since they have been considered to go beyond the disclosure as filed, as indicated in the Suppleme 70.2(c)).	nad not been ntal Box (Rule
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
*	If it	tem 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001622

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step	p or industrial	applicability;
	citations and explanations supporting such statement		

tatement .	•	
Novelty (N)	Claims 1-29	YES
·	.Claims	NO
Inventive step (IS)	Claims 1-29	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-29	 YES
	Claims	NO -

2. Citations and explanations (Rule 70.7)

NOVELTY AND INVENTIVE STEP

<u>Claims 1-29</u>: The claimed invention relates to a method of forming a silica film on a substrate comprising the steps of producing a silica precursor formulation comprising silicic acid tetramethyl ester homopolymer and no more than 5% by volume of water, coating a substrate with the formulation and curing the coating in a vaporous ammoniacal environment.

None of the cited documents, or obvious combinations thereof, discloses these features. The closest art, US 6599976, discloses a composition comprising an organosilicate (MS51), a catalyst, ethanol and an excessive amount of water. Further, unlike the conventional sol-gel process, the curing step of the present invention is performed at near room temperature and atmospheric pressure. Hence, the claims are novel and inventive.